

**ELECTRICIAN**

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are not intended to reflect all duties performed within the job.*

**DEFINITION**

To install, maintain, troubleshoot, and repair street lighting, emergency generator and traffic control systems; to locate, test and repair malfunctions of power heating, pumps, including sanitary pumping stations, underground cables, and other electrical systems and equipment.

**SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from the Public Works Superintendent.

**ESSENTIAL AND MARGINAL FUNCTION STATEMENTS** – *Essential and other important responsibilities and duties may include, but are not limited to, the following:*

**Essential Functions:**

1. Inspect, diagnose, and repair faulty electrical wiring systems.
2. Read and interpret blueprints, electrical diagrams and color-coded schematics.
3. Provide technical assistance on complex electrical maintenance and repair projects.
4. Understand and carry out verbal and written directions.
5. Operate lifting equipment for access to electrical components located above roadway.
6. Maintain detailed records of all electrical equipment, including streetlights, signals and electrical components in pump stations.
7. Observe safe driving and work practices; use safety equipment and devices; secure work site from traffic and other hazards.
8. Investigate complaints and reports of streetlight malfunctions.

**Marginal Functions:**

1. Perform general maintenance work as required.
2. May direct the work of an assistant on assigned projects.
3. Respond to emergency calls during off-hours as required; may participate in normal stand-by rotation.
4. Perform related duties and responsibilities as required.

**CITY OF BELMONT**  
**Electrician (*continued*)**

**QUALIFICATIONS**

**Knowledge of:**

Techniques, tools, equipment, and materials used in the electrical trade.  
Fundamentals of electricity, particularly as it relates to the operation of traffic signals and street lighting systems.  
Operation, maintenance, and repair of small electrical motors and mechanisms.  
Occupational hazards and appropriate safety precautions common to the electrical field.  
Principles and procedures of record keeping.  
Basic mathematical principles  
Pertinent Federal, State and local codes, laws and regulations.  
OSHA rules and regulations.

**Ability to:**

Properly place cones, barricades and warning devices at job site.  
Prepare accurate records and reports.  
Work independently in the absence of supervision.  
Understand and follow oral and written instructions.  
Communicate clearly and concisely, both orally and in writing.  
Establish and maintain effective working relationships with those contacted in the course of work.  
Maintain physical condition appropriate to the performance of assigned duties and responsibilities.  
Develop, perform and maintain job hazardous analysis (JHA), standard operating procedures (SOP), and preventative maintenance program (PM).

**Experience and Training Guidelines**

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

**Experience:**

Three years of increasing responsible experience performing general electrical installation, maintenance, and repair work; or a minimum of two years journey level electrical experience.

**Training:**

Equivalent to the completion of twelfth grade.

**License or Certificate**

Possession of, or ability to obtain, an appropriate, valid California commercial driver's license.  
Possession of, or ability to obtain, a valid state contractor license (C-10).

**WORKING CONDITIONS**

**Environmental Conditions:**

Field environment; travel from site to site; exposure to noise, dust, grease, smoke, fumes, gases, potentially hazardous chemicals, high voltage, heavy traffic; inclement weather conditions; work around heavy construction equipment.

**Physical Conditions:**

Essential and marginal functions may require maintaining physical condition necessary for walking, standing or sitting for prolonged periods of time; heavy, moderate or light lifting and carrying; operating motorized equipment and vehicles; mid-range to distant visual acuity for operating equipment.

